

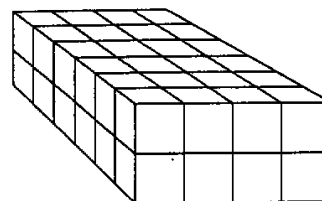
Additional Practice

Investigation 2

Filling and Wrapping

1. The bottom of a closed rectangular box has an area of 50 square centimeters. If the box is 8 centimeters high, give at least three possibilities for the dimensions of the box.

2. a. The rectangular prism at the right is made from centimeter cubes. What are the dimensions of the prism?



- b. What is the surface area of the prism?

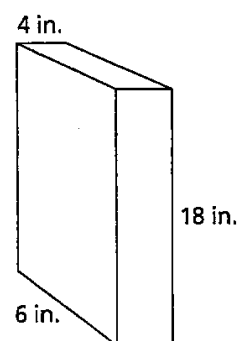
- c. What is the volume of the prism? That is, how many cubes are in the prism?

- d. Give the dimensions of a different rectangular prism that can be made from the same number of cubes. What is the surface area of the prism?

3. Use the diagram at the right to answer the following questions.

- a. What is the total surface area of the box, including the bottom and the top?

- b. How many inch cubes would it take to fill the box? Explain your reasoning.



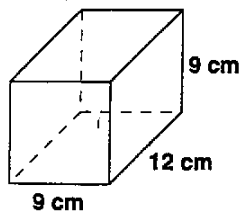
Skill: Surface Area of a Box *(continued)*

Investigation 2

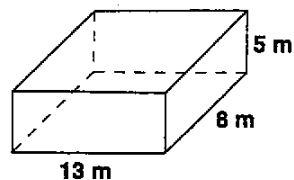
Filling and Wrapping

Find the volume and surface area of each prism.

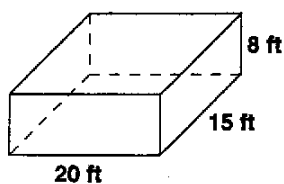
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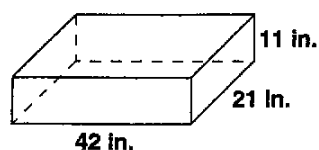
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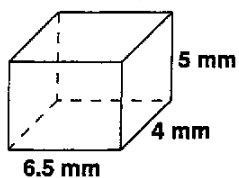
9.



10.



11.



12.

